PROJECT 10073 RECORD CARD

1. DATE	2. LOCATION		12. CONCLUSIONS
22 Oct 1951	North Truro, Mass		☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local ____ GMT 22/0230Z - 0232Z	4. TYPE OF OBSERVATION ☐ Ground-Visual ☒ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar		☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☐ Yes ☒ No	6. SOURCE Radar Operators		☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION 2 minutes	8. NUMBER OF OBJECTS 1	9. COURSE W then S	☒ Other INSUFFICIENT DATA ☐ Insufficient Data for Evaluation ☐ Unknown

10. BRIEF SUMMARY OF SIGHTING

Radar, Report. See Case file.

EVALUATION. . INSUFFICIENT DATA.

11. COMMENTS

This sighting occurred about 8 hours later than the other sighting (same report number) with all conditions similiar except for time, duration of tracking, and direction of the track. The temperature and altitude information are the same, indicating no temperature inversion. It would be unlikely that two meteor trails would be observed the same day, and 4 minutes seems too long for this type of target. There isn't sufficient data regarding the track direction. range, changes,etc., to enable a meaningful evaluation to be made.

ATIC FORM 329 (REV 26 SEP 52)

WINDS ALOFT

26 Oct 0300Z

1000 ft Elevation	Boston Mass.	Stewart N.Y.	Nantucket R.I.	Portland Me.
Surf	280/12	270/13	300/09	300/06
1	300/25	290/10	330/15	300/16
2	310/33	320/11	310/24	310/19
3	310/31	340/18	300/32	320/20
4	330/31	340/27	300/36	320/20
5	340/32	340/41	310/37	320/20
6	330/34	330/42	310/37	310/23
7	320/40	330/39	310/38	310/26
8	320/45	330/40	310/39	310/30
9	320/47	330/42	300/44	310/34
10	320/48	310/40	300/44	320/35
12	320/50	310/34	290/43	320/41
14		290/42	300/48	320/52
16		290/36	300/51	310/60
18		300/37	300/55	310/54
20		310/49	300/98	

Bed 2

26 Oct 0300Z

Synoptic Situation

1031 High Pressure Cell Centered Over Northern Virginia at 260330Z Moving NE. Entire Area Under Influence of High Cell.

Encl 2

EXTRACT FROM STATUS REPORT # 1

DATE: 22 Oct 51

TIME (Local): 1120

LOCATION: N. Truro, Mass.

LENGTH OF TIME OBSERVED: 4 Min.

SOUND: None

SPEED: 2070 mph

ALTITUDE: Unknown

HEADING: 135°

SOURCE: Radar operator

ACTION OR COMMENTS: Indications of radar phenomena due to weather.

DESCRIPTION OF INCIDENT: Radar return - unidentified object.

PROJECT 10073 RECORD CARD

1. DATE	2. LOCATION		12. CONCLUSIONS
22 October 1951	North Truro, Mass		☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local ____ GMT 0418Z - 0422Z	4. TYPE OF OBSERVATION ☐ Ground-Visual ☒ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar		☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☐ Yes ☒ No	6. SOURCE Radar Operators		☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION 4 Minutes	8. NUMBER OF OBJECTS 1	9. COURSE	☐ Other ____ ☒ Insufficient Data for Evaluation ☐ Unknown

10. BRIEF SUMMARY OF SIGHTING

Radar Report. SEE CASE FILE

EVALUATION. . . INSUFFICIENT DATA

11. COMMENTS

The weather information does not support temperature-inverted anomalous propagation. There probably are other discrepancies in the upper atmosphere which could also cause anomalous propagation. The possibility that meteors entered the atmosphere and were detected cannot be disregarded, and may be the answer to this report. A meteor would cause ionization of the air which should increase the target detectability. Short duration of the condition supports this theory, rather than anomolous propagation.

ATIC FORM 329 (REV 26 SEP 52)

This sighting occurred about 8 hours later than the other sighting (same report number) - with all conditions similar except for time, duration of tracking, and direction of the track.

The temperature and altitude information are the same, indicating no temperature inversion. It would be unlikely that two meteor trails would be observed the same day, and 4 minutes seems too long for this type of target

There isn't sufficient data regarding the track direction, range, changes, etc., to enable a meaninful evaluation to be made.



IR-47-51E

This sighting occurred about 8 hours later than the other sighting (same report number) — with all conditions similar except for time, duration of tracking, and direction of the track.

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There isn't sufficient data regarding the track direction, range, changes, etc. to enable a meaningful evaluation to be made.

[redacted]
74201
TDEED
18 Feb 64

UNCLASSIFIED

AF FORM 112—PART I
APPROVED 1 JUNE 1948

(CLASSIFICATION)

COUNTRY	REPORT NO.	(LEAVE BLANK)
U.S.A.	IR-47-51E	

AIR INTELLIGENCE INFORMATION REPORT

SUBJECT
REPORT OF UNUSUAL RADAR SCOPE SIGHTING

AREA REPORTED ON	FROM (Agency)
EADF	D/I EADF

DATE OF REPORT	DATE OF INFORMATION	EVALUATION
8 NOVEMBER 1951	1 NOVEMBER 1951	

PREPARED BY (Officer)	SOURCE
BEN Z.M. GERSHATER, Captain, USAF	32d AIR DIV (LTR, COC319.1, 1 NOV 51, RPT OF UNUSUAL RADAR TARGETS.

REFERENCES (Control number, directive, previous report, etc., as applicable)
ADC L 200-1

SUMMARY: (Enter concise summary of report. Give significance in final one-sentence paragraph. List inclosures at lower left. Begin text of report on AF Form 112—Part II.)

On 22 October 1951, the radar station, located at North Truro, Massachusetts observed an unusual sighting on its radar scopes, at a location approximately 120 to 300 miles East and East-North-East away. Details are listed on Part II, this report. "The individual echo returns, and the appearance of the track, substantiate the probability that these radar "pick-ups" may actually have been that of an unidentified flying object, rather than some type of radar interference or malfunction."

APPROVED:

BRUCE K. BAUMGARDNER
Lt. Colonel, USAF
Director of Intelligence

0 INCLS.

DOWNGRADED AT 3 YR. INTERVALS
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

UNCLASSIFIED

DISTRIBUTION BY ORIGINATOR

2cys - CG, AMC, Wright-Patterson AFB, Dayton, Ohio, Attn: MCIS
1 cy - CG, ADC, Ent AFB, Colorado Springs, Colorado, Attn: Deputy for Intelligence

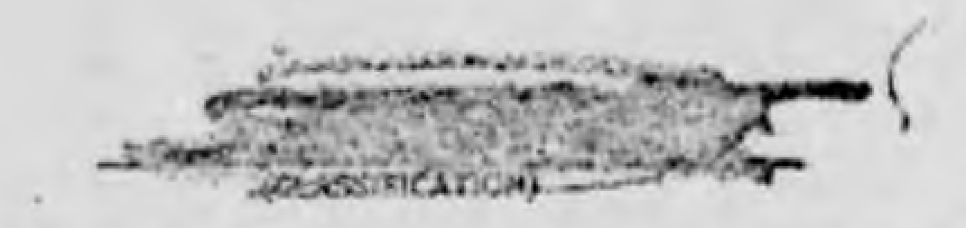
UNCLASSIFIED

(CLASSIFICATION)
UNCLASSIFIED

515-167517

10—55559-1 U. S. GOVERNMENT PRINTING OFFICE : 1950 O—913331

AF FORM 112—PART II
APPROVED 1 JUNE 1948



UNCLASSIFIED

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	
D/I EADF	IR-47-51E	PAGE 2 OF 2 PAGES

In compliance with provisions of ADC Letter No 200-1, "Reporting of Information on Unconventional Aircraft", 11 April 1951, reference: sub-paragraph 5b thereof, the following detailed report, as required in sub-paragraph 5a(1) thereof, is submitted, concerning an unusual sighting, on its radar scopes, by a station located at North Truro, Massachusetts.

(a) Description of object: Returns indicated a characteristic "sausage shape", in which the dimension in range is smaller than the dimension in azimuth. Amplitude of the return varied from radar "pick-up" to "pick-up" and was never appreciably strong; these two characteristics are typical of any radar return of an aircraft or flying object. Possible preclusion of the object being flying object was the extreme range of final pick-up. Normally, a flying object capable of indicated great speed (reference: below) would be streamlined.

(b) Time of sightings: From 22-0418Z to 22-0422Z, for duration of four (4) minutes. Estimated speed: approximately 1800 knots.

(c) Manner of observation: by radar "pick-up", on Plan Position Indicator CPS-6B radar set, on frequencies of 2992 and 3014 megacycles, by station at North Truro, Massachusetts. Observation from surface station.

(d) Location of observer: Station located at 4202N; 7003W. Single object observed along track, from 4310N; 6810W to 4140N; 6530W, at an unknown altitude, at locations approximately 120 to 300 miles East, ENE, and ESE of observer, during four-minute observation pickups. Course: approx ESE.

(e) Identification of observer: Radar station. Reliability: normal. Estimate of reliability and experience: unknown.

(f) Weather conditions at time of sighting: clear, visibility: 15 miles; temperature: 38 degrees F.

(g) Other factors which might account for phenomenon: Nothing definite. However, the suggestion is offered that: (1) annual "showers" of meteorites, normally due 12-15 November, each year, may be a possible cause; (2) possible meteor from Kopff's comet, due to return near the Earth, October, 1951. No meteorological phenomena in evidence, however, to indicate either. The possibility remains that the object may have been an unconventional flying object.

(h) No physical evidence exists of the observation. Object was above ocean.

(i) No identification or interception procedures were undertaken.

(j) Local aircraft airborne at time of sightings: no information available.

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DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

Ben Z. M. Gershater
BEN Z. M. GERSHATER
Captain, USAF
Intelligence Duty Officer

UNCLASSIFIED

515-167517

C-1 [redacted] ROUTINE
FM EADF STEWART AFB NY
TO CG AMC WPAFB OHIO

1-ATIAA
[redacted] ATIA
3-ATI

ORIGINAL REF NR: -GRUDGE. REF YOUR MSG . A. AVAILABLE WEATHER MATERIAL BEING FORWARDED UNDER SEPARATE COVER ADDRESSED ATTN: ATIAA-GRUDGE. B. NO OTHER EQUIPMENT OBSERVED PHENOMEN ON C. NEGATIVE. WEATHER INFORMATION RPT INDICATED EXISSTING SUBSIDENCE CONDITION MAY HAVE RESULTED IN ANOMALOUS PROPAGATION.

[redacted] 575-17077

NOVEMBER

OK DTG REMOVED

ROUTING

JOINT MESSAGEFORM

COMMUNICATIONS CENTER NO:

UNCLASSIFIED

SPACE ABOVE FOR COMMUNICATIONS CENTER ONLY

FROM: (Originator)	DATE-TIME GROUP	SECURITY CLASSIFICATION
CO, ATIC	71900Z Nov 51	
	PRECEDENCE FOR: ACTION Routine	INFORMATION
TO: Hq, 22nd Air Division (Defense) Stewart AFB, Newburgh, N. Y. RADNOTE	☐ BOOK MESSAGE	☒ ORIGINAL MESSAGE
	☒ MULTIPLE ADDRESS	CRYPTOPRECAUTION ☐ YES ☒ NO
	REFERS TO MESSAGE	
INFO: D/I, Hq USAF, Washington 25, D. C.	IDENTIFICATION	CLASSIFICATION

Reference your report on radar sightings at North Truro, Mass., on 27 Oct 51, Subject: "Information on Unconventional Aircraft", dated 31 Oct 1951. Please advise on following:

a. Is there any weather data available from nearby U.S. weather stations, which include temperature vs altitude, humidity vs altitude, wind velocity vs altitude?

b. Was the target observed by any other nearby radar equipments? If so, give details.

c. Has anomalous propagation been observed to extend the range of ground clutter by this radar at this site, and did this condition exist during or near the time that unknown target was observed?

In reply cite ATIAA-Grudge.

DOWNGRADED AT 3 YR. INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

UNCLASSIFIED

51S-16381б

		SECURITY CLASSIFICATION	PAGE 1 OF 1 PAGES
DRAFTER'S NAME (and signature, when required) Lt Henry Metscher/vs		RELEASING OFFICER'S SIGNATURE	
SYMBOL AFOIA-2	TELEPHONE 54261	OFFICIAL TITLE	

DD FORM 1 OCT 49 173 REPLACES NME FORM 173, 1 MAY 49, WHICH MAY BE USED.

16—68923-3 U. S. GOVERNMENT PRINTING OFFICE

The weather information does not support temperature-inverted anomalous propagation. There probably are other discrepancies in the upper atmosphere which could also cause anomalous propagation.

The possibility that meteors entered the atmosphere and were detected cannot be disregarded, and may be the answer to this report. A meteor would cause ionization of the air which should increase the target detectability. Short duration of the condition supports this theory, rather than anomolous propagation.

[redacted]

4-37/2-37

HEADQUARTERS
EASTERN AIR DEFENSE FORCE
STEWART AIR FORCE BASE, NEWBURGH, N. Y.

INT 350.09

SUBJECT: Information on Unconventional Aircraft 19 NOV 1951

TO: Commanding General
Air Materiel Command
Wright-Patterson Air Force Base
Dayton, Ohio

ATTN: ATIAA-GRUDGE

In accordance with message, your headquarters, AT-9117, dated 8 November 1951, and message, this headquarters, transmitted 15 November 1951, below-listed inclosures are submitted.

FOR THE COMMANDING GENERAL:

Robert J. Ortelt
ROBERT J. ORTELT
CAPTAIN, USAF
Ass't Air Adjutant Gen.

9 Incls
1. Upper Air Data
2. Winds Aloft
3. Synoptic Situation
4. Eastern US RAOBS
5. Constant Pressure Chart 700 MB
6. Constant Pressure Chart 500 MB
7. Constant Pressure Chart 850 MB
8. Adiabatic Diagram
9. USAF Weather Plotting Chart

UPPER AIR DATA

26 Oct 0300Z

	(5000 ft)	Temp.	Wind Direction
Stewart, N.Y.	850 MB	+ 7°C	340/41
Portland, Me.	850 MB	+ 6°C	320/20
Otis, Mass.	850 MB	+ 8°C	310/37

	(10000)	Temp.	Wind Direction
Stewart, N.Y.	700 MB	+ 2°C	310/40
Portland, Me.	700 MB	+ 1°C	320/35
Otis, Mass.	700 MB	apprx + 3°C	300/44

	(18000 ft)	Temp.	Wind Direction
Stewart, N.Y.	500 MB	-14°C	300/37
Portland, Me.	500 MB	-14°C	310/54
Otis, Mass.	500 MB	apprx -14°C	300/55

WINDS ALOFT

26 Oct 0300Z

1000 ft Elevation	Boston Mass.	Stewart N.Y.	Nantucket MASS.	Portland Me.
Surf	260/12	270/13	300/09	300/06
1	300/25	290/10	330/15	300/16
2	310/33	320/11	310/24	310/19
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7	320/40	330/39	310/38	310/26
8	320/45	330/40	310/39	310/30
9	320/47	330/42	300/44	310/34
10	320/48	310/40	300/44	320/35
12	320/50	310/34	290/43	320/41
14		290/42	300/48	320/52
16		290/36	300/51	310/60
18		300/37	300/55	310/54
20		310/49	300/98	

Incl 2

26 Oct 0300Z

Synoptic Situation

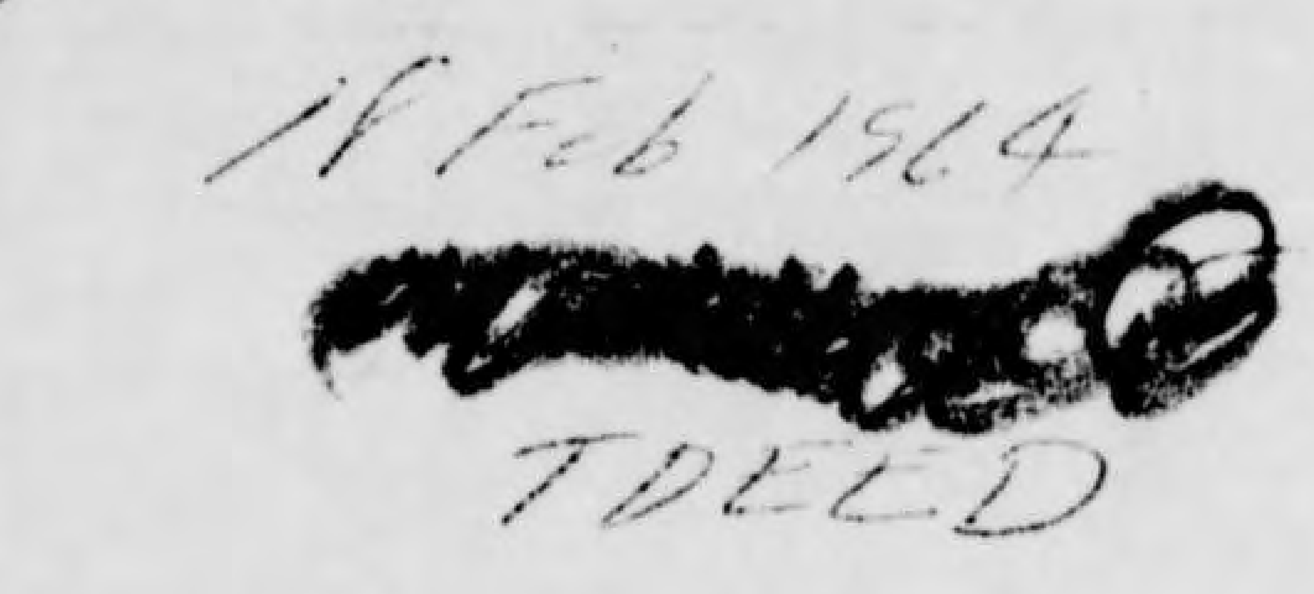
1031 High Pressure Cell Centered Over Northern Virginia at 260330Z Moving NE. Entire Area Under Influence of High Cell.

Incl 3

IR-47-51E

The weather information does not support temperature-inverted anomalous propagation. There probably are other discrepancies in the upper atmosphere which could also cause anomalous propagation.

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18 Feb 1964

[redacted]

TDEED

UNCLASSIFIED

HEADQUARTERS
32d Air Division (Defense)
Stewart Air Force Base
Newburgh, New York

CLASSIFIED SECRET
BY AUTH: CO 32D
AIR DIVISION (DEF)
DATE: 31 Oct 51
INITIAL: [illegible]

CoC 319.1

NOV 1 1951

SUBJECT: Information on Unconventional Aircraft

TO: Commanding General
Air Materiel Command
ATTN: MCIS
Wright-Patterson Air Force Base
Dayton, Ohio

1. In compliance with ADC Letter 200-1, dated 11 April 1951, Subject: Reporting of Information on Unconventional Aircraft, the following report is submitted:

a. Manner of observation: Radar pickup on Plan Position Indicator of CPS-6B radar at North Truro, Massachusetts.

b. Time and place of sighting: 1230Z to 1232Z, 22 October 1951, from 68°15' W - 43°05' N to 70°05' W - 42°40' N.

c. Location of observer (CPS-6B radar): 70°03' W - 42°02' N.

d. Length of time object was observed: Two (2) minutes.

e. Number of objects: One; course: West, then South; altitude unknown; speed: 2400 Knots.

f. Weather conditions at time of sighting: Clouds - 1400', scattered; visibility - 15 miles; temperature - 42°.

g. Radar frequency: 2992 and 3014 Megacycles.

h. Probable identity of target: Unknown.

i. No interception or identification action was taken.

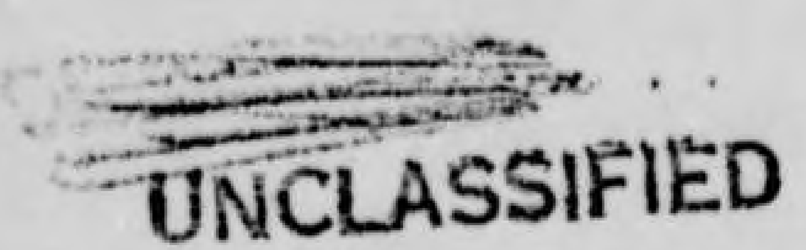
j. The individual echo returns and the appearance of the track substantiated the probability of these radar pickups actually being of a flying object rather than some kind of radar interference or malfunction. The individual returns were of the characteristic sausage shape in which the dimension in range is smaller than the dimension in azimuth. The amplitude of the return varied from pickup to pickup and was never appreciably strong, both of which are characteristic of any aircraft radar return. When the tracks turned toward

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DOD DIR 5200.10

575-15-9831

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UNCLASSIFIED

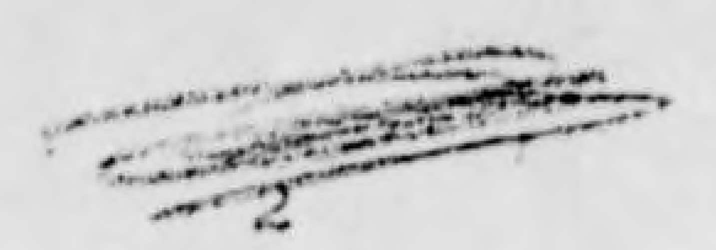
CoC 319.1
Subject: Information on Unconventional Aircraft (Cont'd)

the station the strength of the individual echo returns decreased sharply, a phenomenon common to all highly streamlined aircraft. This track faded at a distance of 30 miles north of the station. Whether it faded because it plunged into the water or whether it faded because of flying at an extremely high altitude is unknown.

FOR THE COMMANDING OFFICER:

B. J. ROBERTS
Captain, USAF
Asst. Air Adj. Gen.

INFO:
1 cy - CG, ADC



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DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

UNCLASSIFIED

5-15-10-9831

UNCLASSIFIED

C-1 SECRET ROUTINE
FM EADF STEWART AFB NY
TO CG AMC WPAFB OHIO

1-ATIAA
[redacted] ATIA
3- A-TI

ORIGINAL REF NR: -- -GRUDGE. REF YOUR MSG
. A. AVAILABLE WEATHER MATERIAL BEING FORWARDED UNDER SEPARATE COVER ADDRESSED ATTN: ATIAA-GRUDGE. B. NO OTHER EQUIPMENT OBSERVED PHENOMEN ON C. NEGATIVE. WEATHER INFORMATION RPT INDICATED EXISSTING SUBSIDENCE CONDITION MAY HAVE RESULTED IN ANOMALOUS PROPAGATION.

[redacted] 575-17077

NOVEMBER

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DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

UNCLASSIFIED OK DTG REMOVED

ROUTING

JOINT MESSAGEFORM

COMMUNICATIONS CENTER NO

UNCLASSIFIED

SPACE ABOVE FOR COMMUNICATIONS CENTER ONLY

FROM: (Originator)

CG, ATIC

DATE-TIME GROUP	SECURITY CLASSIFICATION
[illegible]Z Nov 51	[illegible]
PRECEDENCE FOR: ACTION Routine	
☐ BOOK MESSAGE	☐ ORIGINAL MESSAGE
☒ MULTIPLE ADDRESS	CRYPTOPRECAUTION ☐ YES ☒ NO
REFERS TO MESSAGE	
IDENTIFICATION	CLASSIFICATION

TO: CG, 32nd Air Division (Defense)
Stewart AFB, Newburgh, N. Y.
[illegible]

INFO: D/I, Hq USAF, Washington 25, D. C.

Reference your report on radar sightings at North Truro, Mass., on 22 Oct 51, Subject: "Information on Unconventional Aircraft", dated 31 Oct 1951. Please advise on following:

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In reply cite ATIAA-[illegible].

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DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

ATIAA-2c [illegible]

16073

[illegible]

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SECURITY CLASSIFICATION	PAGE 1 OF 1 PAGES
[illegible]	

DRAFTER'S NAME (and signature, when required)	RELEASING OFFICER'S SIGNATURE
Lt Henry [illegible]	

SYMBOL	TELEPHONE	OFFICIAL TITLE
ATIAA-2	[illegible]	

DD FORM 1 OCT 49 173 REPLACES NME FORM 173, 1 MAY 49, WHICH MAY BE USED.

[illegible] ☆ U. S. GOVERNMENT PRINTING OFFICE

HEADQUARTERS
EASTERN AIR DEFENSE FORCE
STEWART AIR FORCE BASE, NEWBURGH, N. Y.

INT 350.09

SUBJECT: Information on Unconventional Aircraft

19 NOV 1951

TO: Commanding General
Air Materiel Command
Wright-Patterson Air Force Base
Dayton, Ohio

ATTN: ATIAA-GRUDGE

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FOR THE COMMANDING GENERAL:

[illegible]
CAPTAIN, USAF
Ass't Air [illegible]

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4. Eastern US RAOBS
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